



Illinois Department of Transportation

Memorandum

To: James J. Jereb Attn: L. Schaub/S. Ferguson
From: Ralph E. Anderson By: Todd E. Ahrens
Subject: Bridges and Structure *Todd E. Ahrens*
Date: December 31, 2001

FAI Route 80
Section (50-2) RS-4 & (50-3) RS-5
LaSalle County

P-93-065-00
SN 050-0084

FAU 6120 (IL 178) over I-80

We have received the Bridge Condition Report (BCR) submitted with your memorandum dated October 4, 2001, recommending total structure replacement.

After reviewing the BCR and existing plans, we have the following comments and recommendations:

1. We concur with your recommendation for total structure replacement based on the following reasons:
 - a) The BCR quantity for full depth deck repair is underestimated. Our revised full depth repair quantity warrants a deck replacement.
 - b) Beam replacement is justified based on the quantity of beam end repairs, benefits in reducing the number of joints and a revised cost analysis.
 - c) A substructure replacement has the benefits of using integral abutments, removing shoulder piers, and eliminating these pier types that have a significant history of maintenance problems.
2. The proposed bridge width was not addressed in the BCR. Please submit a proposed bridge cross section along with a Proposed Bridge Drawing for our review and approval.
3. If this structure is to be gapped for repairs in 2002, we recommend that the structure's deteriorated beam ends and piers be monitored regularly since the structure has not been programmed for replacement. We recommend this structure be programmed as early as possible within the next 5 year program. If not, some form of preventive measures at these locations maybe required.

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4. Stage construction was not addressed in the BCR but appears feasible, if required.

The BCR is approved subject to these comments. Please note that structure borings will be required.

TAC/kcp239